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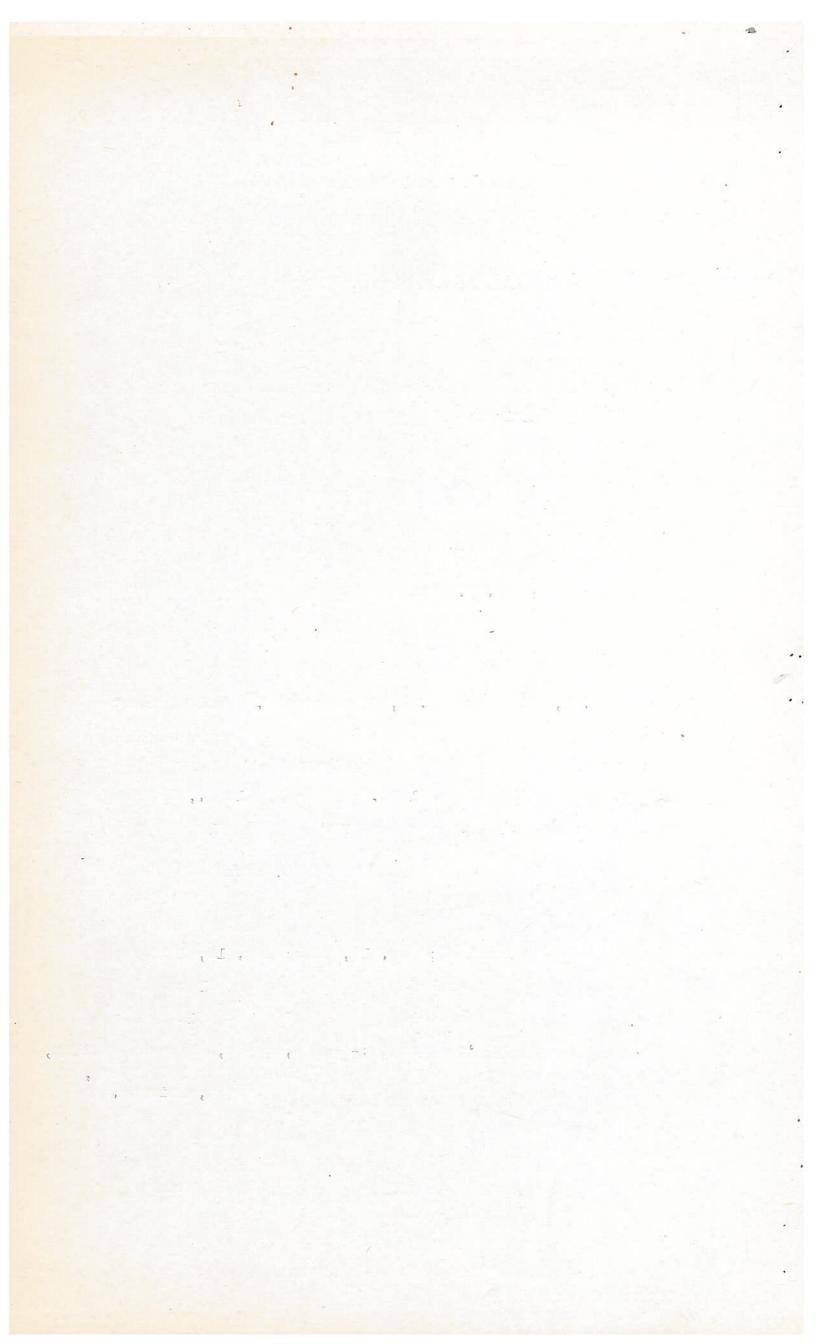
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT



MINERAL SURVEY NO. 4351

	Lan	d District.
	FIELD NOTES	
	Of The Survey Of The Mining Clai	m Of
	M. C. Lake	
	Known As The	
Minneso	ta No. 1, Minnesota No. 2, Minnesota	No. 3 and Minnesota
No. 4 10	odes Owen	Mining District,
Moh	nave County, Arizona	
	29 , Township 12 N.	
	eyed under order dated December 27	
	by Ralph	L. Motz Mineral Surveyor.
	Claim located April 23; Dec. 13, 1935	; Aug. 16, 1936
	Survey commenced March 8	, 1951
	Survey completed March 13	, 19 <u>51</u>
	Address of claimant 's attorney:- Knapp Val DATES OF AMENDED LOCATIONS	Boyle, Thompson & Billey National Building, Tucson, Arizona.
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This survey was made with 1°C. L. Berger & Sons precise transit, with horizontal limb 6.25 ins. diam., having two double opposite verniers, and full vertical circle 5 ins. diam., having one double vernier, the verniers read to one minute of arc; the eye piece is equipped with a colored glass slide in a detachable prismatic eyepiece for making direct observations upon the sun. The instrument was in good condition at the

order.

All azimuths in this record were determined by the method of deflection angles referred to the meridian determined by the following observation:-

time of the survey and all adjustments were in good

March 10, 1951, at Cor. No. 2 of the Minnesota No. 2 lode in latitude 34° 21' N., and longitude 113° 38' W., I made a series of six altitude observations upon the sun for, zimuth at approximately equal time intervals, three each with the telescope in direct and reversed positions, observing opposite limbs of the sun, and reading the horizontal angle from Cor. No. 1 of the Minnesota No. 2 lode to the sun.

Mean time of observation,

105th meridian standard time - - 9h. 15 m., A. M.

Declination of sum at mean time

of observation - - - - - 4° 13' 50.2" S.

Mean observed vertical angle to

sun's center - - - - - 26° 33'

Mean horizontal angle from reference

point to sun's center - - - - 26° 07' S-E

True bearing to reference point - 8. 89° 57' E.

The lines were measured with a Keuffel & Esser steel tape, 300 feet in length, graduated to feet, tenths, and hundredths of feet for the entire length; a Keuffel & Esser steel tape, 100 feet in length, graduated to feet, tenths and hundredths of feet for the entire length; a Keuffel & Esser steel tape, 25 feet in length, graduated to feet, inches and fractions of inches for the entire length; all tapes were compared to a Lufkin standard tape at the time of beginning the survey, and found correct.

found correct.
All lines and connections of the survey were run by

direct methods.

The magnetic declination observed at each corner of the survey gave a uniform value of 15° 20' E.

Survey No. 4351

MINNESOTA NO. 1 LODE

At Cor. No. 1 of the Minnesota No. 1 lode, identical with Cor. No. 1 of the Minnesota No. 3 lode of this survey

On the line between Secs. 29 and 32, T. 12 N., R. 13 W., G. & S. R. M.

Set an iron pipe, 1 inch diameter, 3 feet long, 14 inches in the ground in a mound of stones, mkd. M1-1-M3-1-4351; from which

The 1/4 corner Secs. 29 and 32, T. 12 N., R. 13 W., G. & S. R. M., bears N. 89° 57' W., 659.3 ft. dist.; an iron post, linch diameter, with brass

	_ Survey No.4351
Feet	
	cap, 18 ins. above ground, firmly set and marked as described in the official record.
	Thence N. 0° 03 two,
600	Cor. No. 4 of the Minnesota No. 3 lode and Cor. No. 1 of the Minnesota No. 4 lode, both of this survey
1200	Cor. No. 4 of the Minnesota No. 4 lode of this survey
1500	Cor. No. 2
ä	Set an iron pipe, 1 inch diameter, 3 feet long, 15 inches in the ground in a mound of stones, mkd. M1-2-4351
	Thence S. 89° 57' E.,
°300	Tode line; discovery cut bears S. 0° 03' E., 1260 ft.
600	Cor. No. 3, identical with Cor. No. 3 of the Minnesota No. 2 lode of this survey
o c	Set an iron pipe, 'l inch diameter, 3 ft. long, 16 ins. in the ground in a mound of stones, with brass cap, 3 inches square, mkd. Ml-3-M2-3-4351
	Then ce S. 0° 03' E.,
1300	-Center of road, bears N. 42° W., and S. 42° E.
1500	Cor. No. 4, identical with Cor. No. 2 of the Minnesota No. 2 lode of this survey
In Head	On the line between Secs. 29 and 32, T. 12 N., R. 13 W., G. & S. R. M.
franci tor a militu	Set an iron pipe, 1 inch diameter, 3 ft; long, 15 inches in the ground in a mound of stones, with brass cap, 3 inches diameter, mkd. M1-4-M2-2-4351, from which
TO BU	A sandstone rock in place, 9 x 24 ins., 8 ins., above ground bears N. 9° 55' E., 30.7 ft. dist., mkd. Bû X Ml-4-4351
	above ground bears S. 45° 12' E., 11. 2 ft. dist., mkd. BO X Ml-4-4351
	Thence N. 89° 57' W.
300	Lode line, discovery cut bears N. 0° 03' W., 240 ft. dist.
855	Center of road, bears N. 65° W., and, S. 65° E.
600	Cor. No. 1 and place of beginning.
al .	
	MINNESOTA NO. 'Z L'ODE '. '
1.	At Cor. No. 1 of the Minnesota No. 2 lode
, P	on the line between Secs. 29 and 32, T. 12 N., R. 13 W., C & S. R. M.
en and a	Set an iron pipe, l inch diameter, 3 feet long, 18 ins.

	Feet	in the ground in a mound of stones, with brass cap 3 inches square. mkd. M2-1-4351; from which
	Atosan	The point for the Cor. of Secs. 28, 29, 32 and 33, T. 12'N., R. 13 W., G. & S. R. M., bears S. 89° 57° E., 78I.4 ft. dist.; an iron pin driven in a sloping ledge, from which the witness corner bears S. 0°'03' E., 66.0 ft. dist., an iron pipe with brass cap, firmly set and marked as described in the official record.
		A schist rock in place, 12 x 14 ins., 12 ins. above ground, beers N. 79° 02' E., 13.8 ft. dist., mkd. BO X M2-1-4351 Thence N. 89° 57' W.,
	300 416 600	Lode line, discovery shaft bears N. 0° 03' W., 108 ft. dist. Road, bears'SE. and NW. Cor. No. 2, identical with Cor. No. 4 of the Minnesota No. 1 lode of this survey
	1500	Thence N. 0° 03° W., Cor. No. 3, identical with Cor. No. 3 of the Minnesota No. 1 lode of this survey
Sa.		Thence S. 89° 57' E.,
	300	Lode line, discovery shaft bears S. 0° 03' E., 1392 ft. dist.
	600	Cor. No. 4
	e (°	Set an iron pipe, 1 inch diameter, 3 feet long, 18 ins. in the ground in a mound of stones, with brass cap 3 inches square, mkd. M2-4-4351 Thence S. 0° 03' E.,
	1500	Cor. No. 1 and place of beginning.
	lan osam	OOL NO. I GHA PIKOO OL DOBILLINGO
		MINNESOTA NO. 3 LODE
	.00.079	Beginning at Cor. No. 1 of the Minnesota No. 3 lode, 'identical with Cor. No. 1 of the Minnesota No. 1 lode of this survey
		Thence N. 89° 57' W.,
	6,59 3	The 1/4 Cor. Secs. 29 and 32, T. 12 N., R. 13 W., G. & S. R. M.
	1500	Cor. No. 2
	5 978 s	'Identical with Cor. No. 1 of the Maggie No. 25 lode, Survey Survey No. 4211
	•	A basalt rock, 7 x 7 ins., 8 inches above ground, mkd. M25-1-4211; M3-2-4351
		Thence N. 0° 03° W.,
	300	Lode line, discovery cut bears S. 89° 57° E., 1150 ft. dist.
	600	Cor. No. 3, identical with Cor. No. 2 of the Minnesota No. 4 lode of this survey

	Feet	On line 4-1 of Survey No. 4211 Maggie No. 25 lode					
	/ e	Set an iron pipe, 1 inch diameter, 3 feet long, 12 ins. in the ground in a mound of stones, with brass cap 3 inches square, mkd. M3-3-M4-2-4351,					
		Thence S. 89° 57' E.,					
	1500	Cor. No. 4, identical with Cor. No. 1 of the Minnesota No. 4 lode of this survey					
	• c	on line 1-2 of the Minnesota No. 1 lode of this survey					
		Set an iron pipe, 1 inch diameter, 3 ft. long., 18 ins. in the ground in a mound of stones, with brass cap 3 inches square, mkd. M3-4-M4-1-4351; from which					
		A basalt rock in place, 17 x 61 inches, 25 inches above ground bears N. 80° 55' E., 14.2 ft. dist., mkd. BO X M3-4-4351					
		Theree S. 0° 03' E.,					
	300	Lode line, discovery cut bears N. 89° 57' W., 350 ft. dist.					
	600	Cor. No. 1 and place of beginning.					
	11 3031						
		MINNESOTA NO. 4 LODE					
	e cen	Beginning at Cor. No. 1 of the Minnesota No. 4 lode, identical with Cor. No. 4 of the Minnesota No. 3 lode of this survey; from which					
		The 1/4 Cor. Secs. 29 and 32, T. 12 N., R. 13 W., G. & S. R. M. bears S. 47 42 W., 890.7 ft. dist.					
		Thence N. 89° 57' W.,					
	1500	Cor. No. 2, identical with Cor. No. 3 of the Minnesota No. 3 lode of this survey					
		Thence N. 0° 03' W.,					
	300	Lode line, discovery cut bear's 8. 89° 57' E., 1270 ft. dist.					
	600	Cor. No. 3 ,					
	, 6 2	on line 4-1 of Survey No. 4211 Maggie No. 25 lode, Cor. No. 4 of the Maggie No. 25 lode bears N. 0° 03 W., 300 ft. being abasalt rock, 7 x 8 ins., 9 ins. above ground.					
	1,000	Set an iron pipe, 1 inch diameter, 3 feet long, 18 ins. in the ground in a mound of stones, with brass cap 3 inches square, mkd. M4-3-4351					
17	, 1	Therice S. 89° 57' E.,					
	1500	Cor. No. 4, 1					
2	JE 38 F.	on line 1-2 of the Minnesota No. 1 lode of this survey					
	d gapun	Set an iron pipe, 1 inch diameter, 3 feet long, 18 ins. in the ground in a mound of stones, with brass cap 3 inches square, mkd. M4-4-4351					
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Feet	Thence S. O. O. E.,
300	Lode line, discovery cut bears N. 89° 57' W., 230 ft.
600	Cor. No. 1 and place of beginning.
· 45 - 70 00	
DID.	AREAS OF LETTER ACTES
	Total area, Minnesota No. 1 lode 20.661
Deta	Total area, Minnesota No. 2, lode 20.661
	Total area, Minnesota No. 3 lode 20.661
is and it	. Total area, Minnesota No. 4 lode 20.661
face ent	od .et on the EmilyochTion . To and the form
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and has filis	respective location as marked on the ground.
re tra-	Dit of age of EXPENDITURES and addition for
the froe	The improvements and the value of the labor and improvements made upon or for the henefit of each of the lode locations embraced in said mining claim by the claimant or his grantors are as follows:-
hen Jan	The discovery cut of the Minnesota No. 1 lode, the face of which being the discovery point, is on the lode line 240 ft. from the center of line 4-1; 5 ft. wide, 10 ft. face, runs South 18 ft. to face Value \$150
No. 2	358 ft. from Cor. No. 1 of the Minnesota No. 1 lode; 2 x 3 ft. in size, running N. 70° E., 40 ft. to east
co and	La Value, \$80 mg, soor .in of .the Market No.
c n	A trench, the west end of which is on line 1-2, 310 ft. from Cor. No. 1 of the Minnesota No. 1 lode; 2 x 3 ft. in size, runs S. 85° E., 160 ft. to east end . Value \$320
No. 1	
-mi tuer	The discovery cut of the Minnesota No. 3 lode, the face of which being the discovery point is on the lode line 350 ft. from the center of line 4-1; 5 ft. wide, 10 ft. face, runs S. 60° W., 20 ft. to face Value \$160
No. 2	A trench, the south end of which is on line 4-1, 310 ft. from Cor. No. 1 of the Minnesota No. 3 lode; 2 x 3 ft. in size, runs N. 43° W., 25 ft. to north end Value \$50

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No. 3	A trench, the south end of which bears N. 60° 153 W., 553 ft. from Cor. No. 1 of the Minnesota No. 3 lode; 2 x 3 ft. in size, runs N. 61° E., 120 ft. to bend, thence N. 12° E., 85 ft. to another bend, thence N. 19° E., 120 ft. to the north end; total length 325 ft.
No. 4	Value \$650 A trench, the east end of which bears S. 17° 30' W., 170 ft. from Cor. No. 4 of the Minne se ta Ne. 3 lode; 2 x 3 ft. in size, runs west 24 ft. to west end Value \$50
No. 5	-A tench, the east end of which bears S. 31° W., 128 ft. from Cor. No. 4 of the Minnesota No. 3 lode; 2 x 3 ft. in size, runs S. 60° W., 115 ft. to west end Value \$230
No. 6	provement has been allotted to each of the 4 claims in this survey. This is a common improvement and has been made for the benefit of all the claims of this group. The surface of the claims rise from this point to the west, north and east, and from the tunnel drifts and cross cuts can be run to the other claims to develop the ore bodies of manganese ore. Value of a 1/4 interest \$555
No. 1	The discovery cut of the Minnesota No. 4 lode, the face of which being the discovery point is on the lode line 230 ft. from the center of line 4-1; 4 ft. wide, 10 ft. face, runs west 15 ft. to face and east end of trench, 2 x 3 ft. in size, running S. 72° W., 80 ft. to west end. At mouth of cut is the west end of a trench, 2 x 3 ft. in size, running S. 76° E., 110 ft. to bend, thence S. 31° E., 35 ft. to east end.
No. 2	value \$550 In open cut, the mouth of which bears S. 56° W., 415 ft. from Cor. No. 4 of the Minnesota No. 4 lode; 4 ft. wide, 10 ft. face, runs S. 78° W., 24 ft. to face and portal of tunnel, 4 x 7 ft. in size, runn- ing S. 78° W., 3 ft. to face Value \$180
No. 3	An open cut, the mouth of which bears S. 62° 30' W., 442 ft. from Cor. No. 4 of the Minnesota No. 4 lode; 6 ft. wide. 12 ft. face. runs S. 80° W., 24 ft. to
	To facilitate the development of this group of claims a road has been built from the west end line of Sur. No. 4209 Chapin No. 20 lode to this group and into the group of claims. This has been built as a common improvement for the four claims and a 1/4 th interest in its value has been allotted to each of the claims. Value of 5200 ft. of road \$2300 Value of 1/4th interest \$575
	Jackson L. Clark Chainman

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

CERTIFICATE OF SURVEYOR

I, Ralph L. Motz	, Mineral Surveyor,
hereby certify upon honor that in pursuance	of an order received from the
Division of Engineering	, at Albuque rque, New Mexico ,
dated December 27, 1950, I have fait	hfully and correctly executed the survey
of the mining claim of Mack C. Lake	
Minnesota No. 3 and Minnesota No.,4si	(lode, placer, or millsite) tuate in Owen Mining District,
Mohave County, in Section 29	
Gila & Salt River Meridian,	Arizona , and designated (State)
as Survey No. 4351	which is represented in the fore-
going field notes as having been executed by	me and under my direction, and that said
survey has been made in strict comformity wi	th said order, the Manual of Instructions
for the Survey of the Public Lands of the U	United States, and in the specific manner
described in the foregoing field notes, and	I do further certify that the labor ex-
pended and improvements made upon or for the	benefit of the lode
location—s embraced in the said mining claim	(lode or placer) m by claimant— or his grantors
are fully stated in my report therein, and	that the character, extent, location, and
itemized value thereof are specified therein	n with particularity and full detail, and
that no portion of, or interest in, said la	abor and improvements so credited to this
claim has been included in the estimate of e	expenditures upon any other claim.
Bisbee, Arizona. (Place)	Raish Moha (Mineral Surveyor)
March 16, 1951. (Date)	

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

CERTIFICATE OF TURVEYOR

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(Mineral Surveyor)			(Place)	gale
			LIE, L'AL. (Date)	2.762.

U. S. GOVERNMENT PRINTING OFFICE 16-26618-1

CERTIFICATE OF APPROVAL OF FIELD NOTES AND SURVEY OF MINING CLAIM

UNITED STATES

DEPARTMENT OF THE INTERIOR

Bureau of Land Management

Division of Engineering

1009 W. Tijeras Ave.,

Albuquerque, N. M.

At Albuquerque, New Mexico
April 9, 19 51
I, Acting Office Cadastral Engineer at Albuquerque, New Mexico
do hereby certify that the foregoing and hereto attached Field Notes and Return of the Survey of the
Mining Claim ofM. C. Lake
, known as the
Minnesota No. 1, Minnesota No. 2, Minnesota No. 3, and Minnesota No. 4 lodes
situate in mining district,
Mohave County, Arizona
in Section 29 , Township No. 12 North , Range No. 13 West
G&SRM , designated as Survey No. 4351
executed by Ralph L. Motz , Mineral
Surveyor, March 8, 1951 to March 13, 1951 , under my instructions dated
December 27, 1951 , have been critically examined and the necessary
corrections and explanations made, and the said Field Notes and Return, and the Survey they describe,
are hereby approved. The certified copy of the location certificate filed by the applicant for survey is
included and made a part of these field notes.
E. H. Timmell Acting Office Cadastral Engineer.
Acting Office Cadastral Engineer.

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